

SWP Water Quality Summary

November 12 to December 10, 2008

Electrical Conductivity: EC increased at Banks Pumping Plant (BPP), Check 29 and Devil Canyon, but decreased at Check 41 and Vallecitos, from November 12 to December 10, 2008. Concentrations ranged from 212 uS/cm to 717 uS/cm, but remained below the Article 19 Monthly Average Objective of 440 mg/L (733 uS/cm). Daily average concentrations varied at all the locations. The lowest and highest concentrations of 212 uS/cm and 717 uS/cm as of December 10, 2008 occurred at Barker Slough and BPP, respectively. Concentrations increased this month at BPP from 532 uS/cm to 717 uS/cm.

Bromide: Concentrations exceeded the California Bay Delta Authority (CBDA) Objective of 0.05 mg/L at all locations and ranged from 0.05 mg/L to 0.43 mg/L. As of December 10, Barker Slough had the lowest concentration of 0.06 mg/L, followed by Vallecitos with 0.17 mg/L while the highest concentration of 0.43 mg/L occurred at BPP. Concentrations at BPP increased from 0.26 to 0.43 mg/L as of this month.

Turbidity: Turbidity levels decreased slightly at BPP, Check 29 and Check 41, but increased at Vallecitos. Turbidity levels ranged from 0.3 NTU to 6 NTU as of December 10, 2008. The lowest level of 0.3 NTU occurred at Check 29 while the highest level of 6 NTU occurred at Vallecitos on December 10, 2008. BPP mean daily turbidity levels decreased slightly from 5 NTU to 4 NTU as of December 10, 2008.

Dissolved Organic Carbon (DOC): Concentrations decreased at all locations except at Check 13 from November 12 to December 10, 2008. DOC daily average concentrations at BPP and Edmonston ranged from 3.1 mg/L to 2.8 mg/L and from 1.6 mg/L to 2.2 mg/L, respectively.

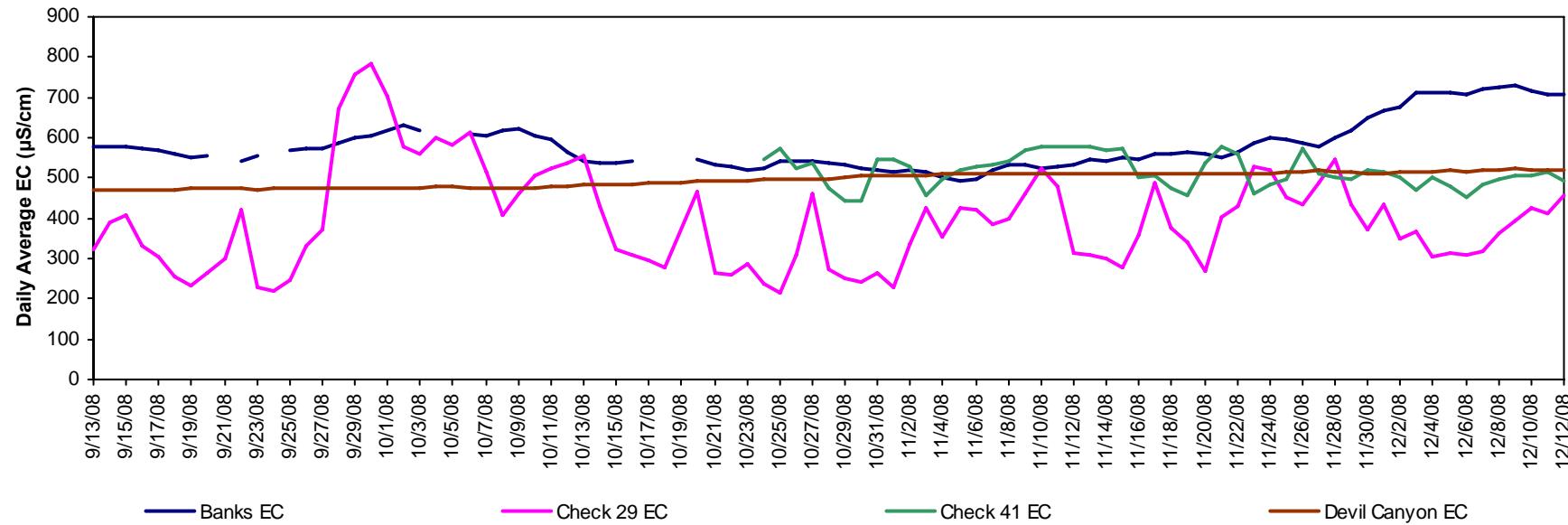
Taste and Odor Compounds: MIB and geosmin concentrations in the SWP spanned from low to moderate project wide, ranging from non-detect to 8 ng/L at Clifton Court, BPP, Del Valle Check 7, O'Neill Forebay Outlet, Check 66 and Silverwood Lake..

Pump-ins: Pump-ins to the State Water Project (SWP) from the banking programs (Alvin Edison, Kern Water Bank, Cross Valley Canal and Semi-tropic 3) this month added a total volume of 32,104 acre feet (AF).

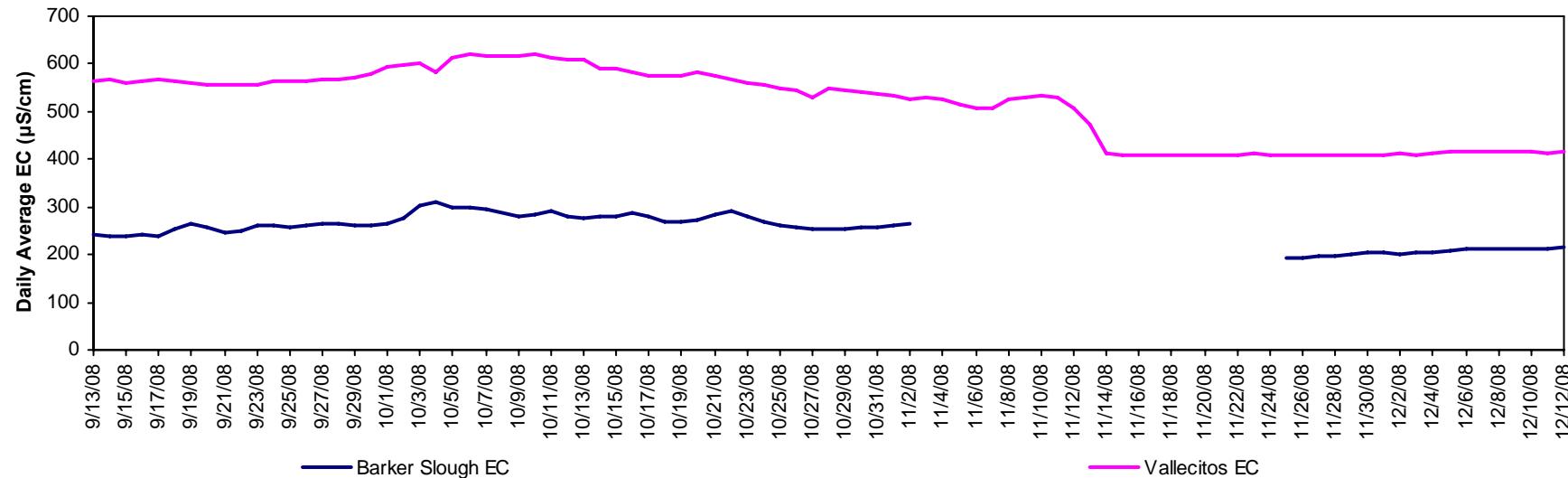
Note:

The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke @ 916-653-7227. To view WQ data from any of the 15 automated stations along the SWP, visit: <http://wwwomwq.water.ca.gov> and click the "Autostation Data" link on the left side navigation bar.

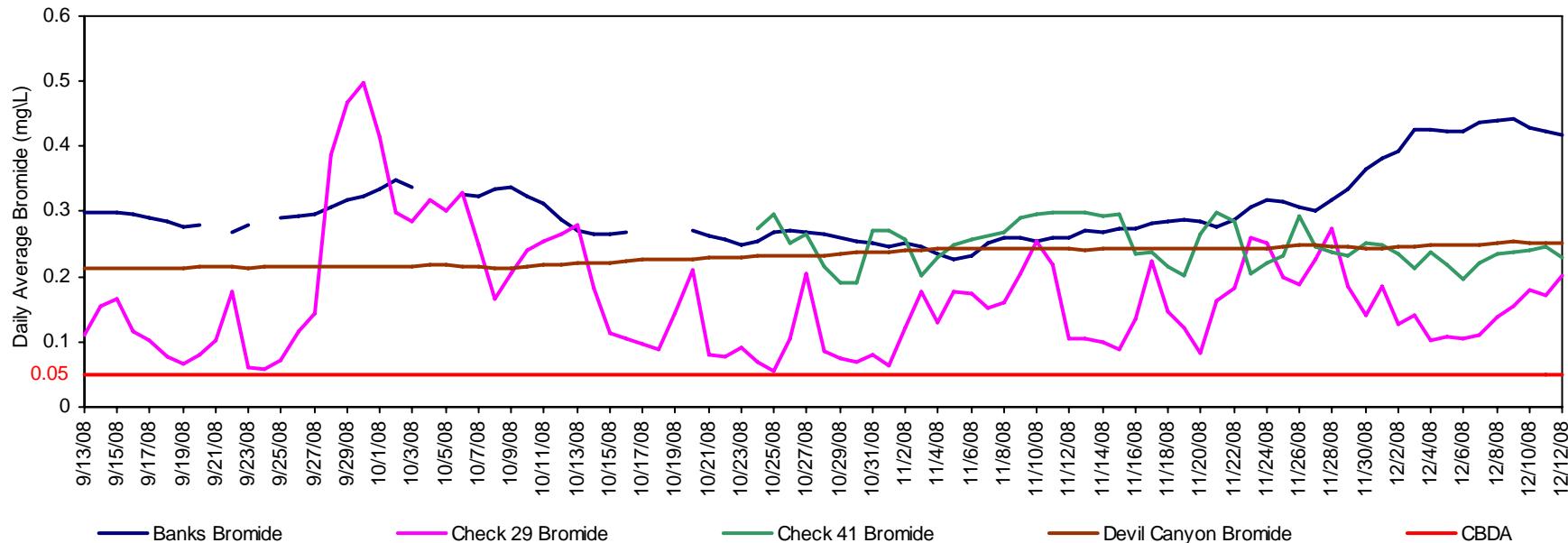
California Aqueduct - Electrical Conductivity



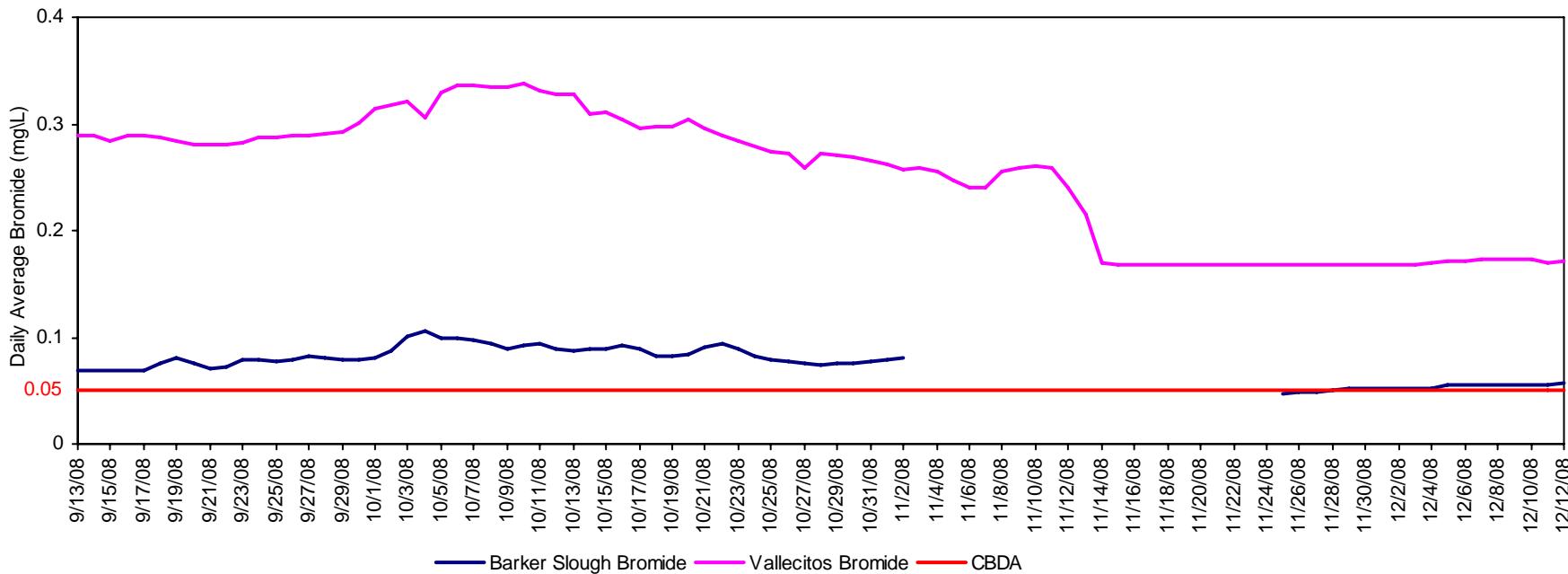
North and South Bay Aqueduct - Electrical Conductivity



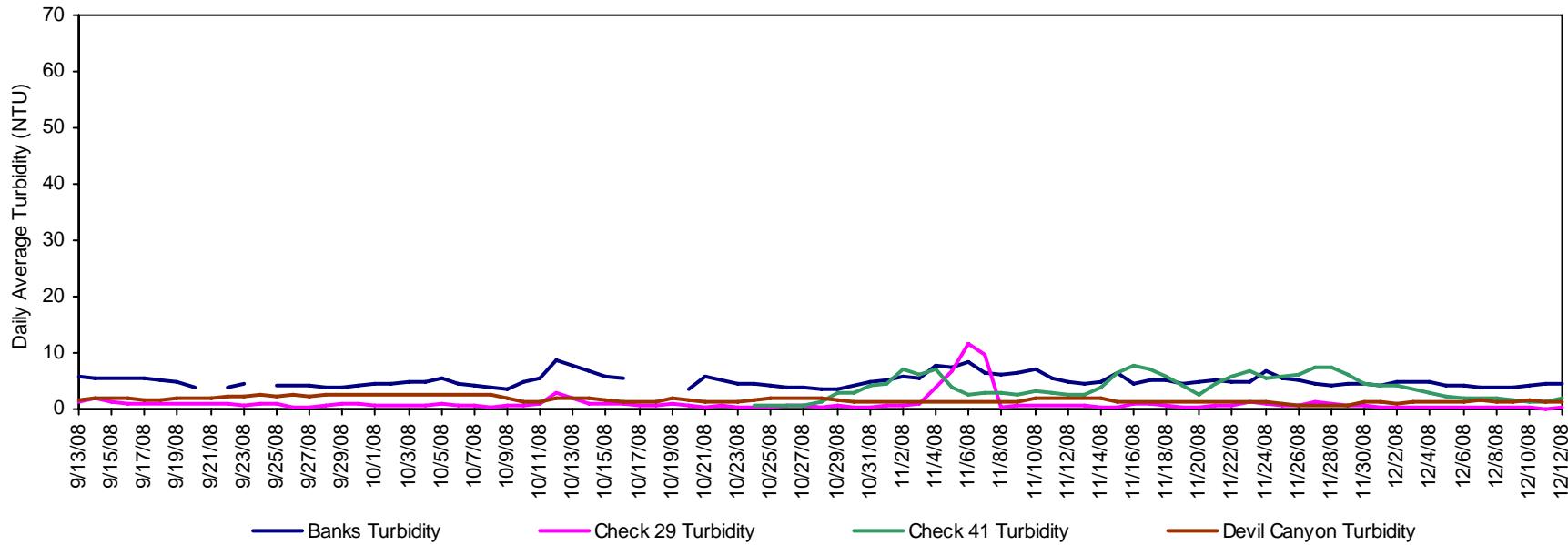
California Aqueduct - Calculated Bromide



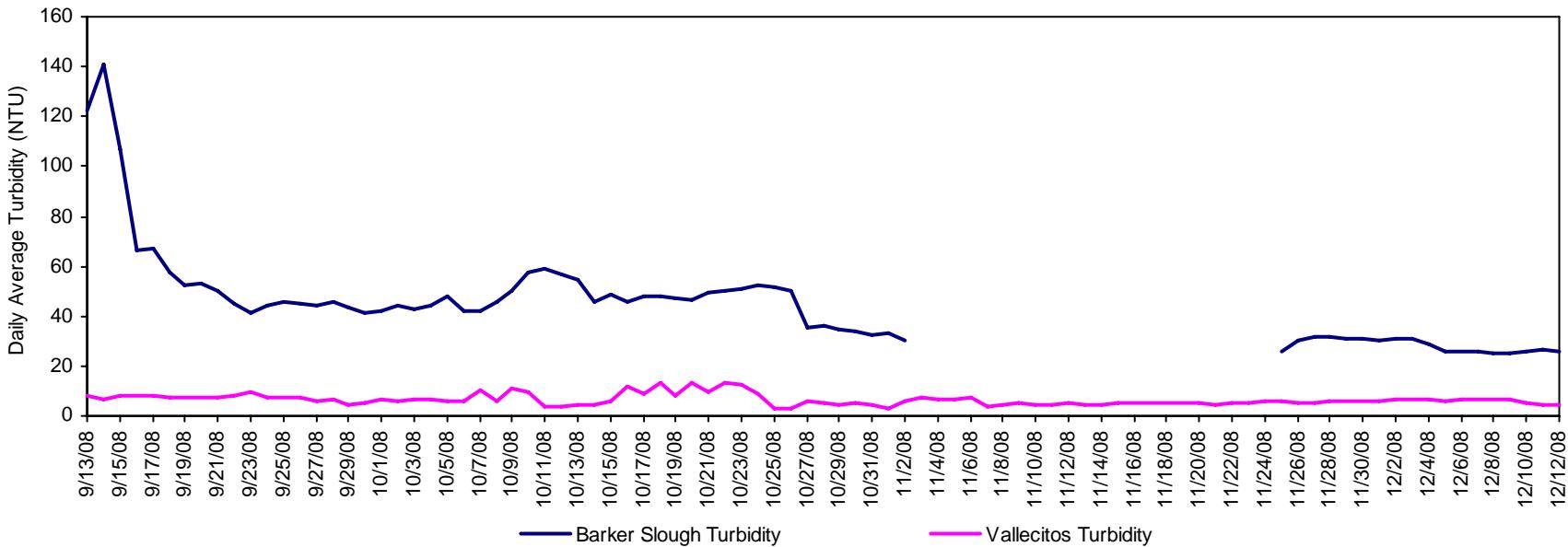
North and South Bay Aqueduct - Calculated Bromide



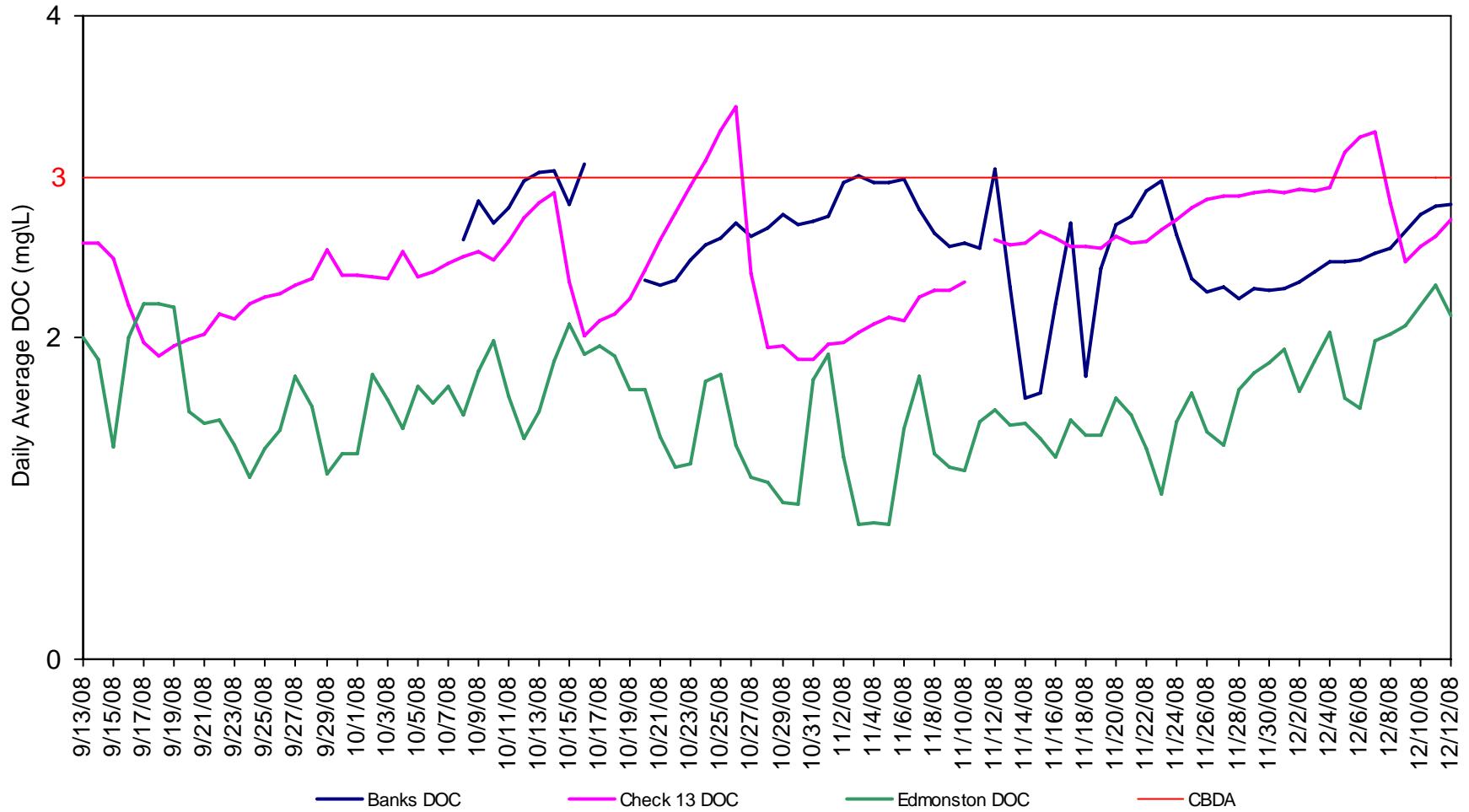
California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct Calculated Dissolved Organic Carbon



SWP Water Quality Report

DWR Operations & Maintenance Water Quality Automated Station Data from November 12 to December 10, 2008

Automated sampling stations provide real time data by continuously measuring water quality conditions in the California Aqueduct.

Water Quality Parameters	Objective	Range	Harvey O. Banks PP KA000331	Check 29 KA024454	Check 41 KA030341	Devil Canyon KA041288	NBA at Barker Slough KG000000	Vallecitos KB002250	Check 13 O'Neill Forebay Outlet KA007089	Edmonston PP Milepost 293.45
EC ($\mu\text{S}/\text{cm}$)	733**	average	617	387	513	514	205	421		
		11/12/08	532	312	576	511	-	507		
		12/10/08	717	425	506	521	212	417		
Bromide (mg/L)	0.05*	average	0.34	0.16	0.25	0.25	0.05	0.17		
		11/12/08	0.26	0.11	0.30	0.24	-	.24		
		12/10/08	0.43	0.18	0.24	0.25	0.06	.17		
Turbidity (NTU)		average	5	.6	4	2	28	6		
		11/12/08	5	0.8	3	2	-	5		
		12/10/08	4	0.3	1	2	26	6		
DOC (mg/L)	3.0*	average	2.4						2.8	1.6
		11/12/08	3.1						2.6	1.6
		12/10/08	2.8						2.6	2.2
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Taste & Odor Parameters	Range	Clifton Court KA000000	Harvey O. Banks PP KA000331	Lake Del Valle, Check 7 KB001632	Check 13 O'Neill Forebay Outlet KA007089	Check 41 KA030341	Check 66 KA040341	Castaic Lake	Lake Perris	Silverwood Lake
MIB (ng/L)	11/10/08 to	ND-5	ND-8	-	ND-4	-	1	-	-	ND-1
Geosmin (ng/L)	12/09/08	2-3	1-5	-	1-2	-	1	-	-	1-2

*CBDA Objective

**Article 19 Monthly Average (converted from 440 mg/L to 733 $\mu\text{S}/\text{cm}$)

ND = Non-detect